(FILE 'HOME' ENTERED AT 10:20:51 ON 12 AUG 2003)

FILE 'HCAPLUS' ENTERED AT 10:21:03 ON 12 AUG 2003

L1 27672 S MICROMETER? OR MICROMETRE? OR MICRON OR MICRONS OR UM
L2 6157 S CONDOM? OR GLOVE?
L3 100062 S ACRYLIC (W)(FIBER? OR FIBRE? OR POLYMER OR POLYMERS OR RESIN
L4 18814 S NITRILE RUBBER OR NITRILE BUTADIENE RUBBER OR NBR
L5 9018 S THERMOPLASTIC ()(POLYMER OR POLYMERS OR COPOLYMER OR COPOLYME
L6 205259 S ACRYLIC ACID OR METHACRYLIC ACID OR ACRYLONITRILE
L7 118209 S LATEX OR ELASTOMER?
L8 0 S L2 AND L1(10N)(L3 OR L4 OR L5(5N)L6)
L9 11 S L2 AND L1
L10 1 S L9 AND (L3 OR L4 OR L5 OR L6)
L11 9 S L1(10N)(L3 OR L4)
L12 0 S L1(10A)L5(5A)L6
L13 0 S L1 AND L5 AND L6
L14 9 S L11 NOT L10
L15 10 S L9 NOT (L10 OR L11)

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:889346 HCAPLUS
DN 134:43211
TI Coated plastic moldings with crepe surface for leather substitutes
IN Watanabe, Kazuhiko
PA Nihon Plast Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B32B033-00
ICS B05D005-06; D06N003-00
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 42
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000351190	A2	20001219	JP 1999-165261	19990611
PRAI	JP 1999-165261		19990611		

AB The moldings, useful for automobile interiors, have semi-transparent coating layers on the finely uneven-patterned surface, where coating thickness on concave parts is larger than that on convex parts. Thus, an ABS resin ***glove*** compartment lid with good leather-like appearance was manufd.
ST ABS leather substitute coating automobile interior
IT Epoxy resins, uses
RL: DEV (Device component use); USES (Uses)
(acrylic; coated plastic moldings with crepe surface for leather substitutes)
IT Leather substitutes
(coated plastic moldings with crepe surface for leather substitutes)
IT ***Acrylic*** ***polymers*** , uses
RL: DEV (Device component use); USES (Uses)
(epoxy; coated plastic moldings with crepe surface for leather substitutes)
IT Automobiles
(interior parts; coated plastic moldings with crepe surface for leather

substitutes)
IT Polyurethanes, uses
RL: DEV (Device component use); USES (Uses)
(matte topcoat; coated plastic moldings with crepe surface for leather substitutes)
IT Coating materials
(transparent; coated plastic moldings with crepe surface for leather substitutes)
IT 313220-72-3, ***Micron*** 3500
RL: DEV (Device component use); USES (Uses)
(coated plastic moldings with crepe surface for leather substitutes)
IT 9003-56-9, ABS resin
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(coated plastic moldings with crepe surface for leather substitutes)

L14 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:35279 HCAPLUS
DN 138:94175
TI Method for making micrometer-sized carbon tubes

L14 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:974460 HCAPLUS
DN 138:222818
TI Structure-borne sound properties of isotropic magneto-rheological rubber

L14 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:584622 HCAPLUS
DN 137:280477
TI Influences of trans-polyoctylene rubber on the physical properties and phase morphology of natural rubber/acrylonitrile-butadiene rubber blends

L14 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:146916 HCAPLUS
DN 134:356366
TI Study of tribological properties of coating/substrate system in micrometer and nanometer scales with a scanning probe microscope

L14 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:610296 HCAPLUS
DN 115:210296
TI Electrophoretic coating compositions

L14 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:584890 HCAPLUS
DN 115:184890
TI Thermosetting and photocurable acrylic adhesives for printed circuit boards

L14 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:376931 HCAPLUS
DN 138:369742
TI Polymer composition containing nano- and micron-sized particles
IN Cayton, Roger H.; Brotzman, Richard W., Jr.; Bilicki, Dan; Freed, Don

PA Nanophase Technology Corporation, USA
SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C08K
CC 37-6 (Plastics Manufacture and Processing)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003040223	A2	20030515	WO 2002-US35295	20021104
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003109634	A1	20030612	US 2002-287144	20021104
PRAI	US 2001-338887P	P	20011103		

AB A material compn. useful in the fabrication of nano-structured structures, is made of a matrix material, a nano-sized particulate fraction and a micron-sized particulate fraction. A process of making a nano-structured compn. is as follows: a nano-structured material is provided to initiate a mixt.; followed by the addn. of a micron-sized particulate material; followed by the addn. of the matrix material.

ST alumina nanoparticle melamine resin plastic film

IT Phenolic resins, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(novolak; polymer compn. contg. nano- and micron-sized particles)

IT Alcohols, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polyhydric, polymers with melamine; polymer compn. contg. nano- and micron-sized particles)

IT Nanoparticles
Plastic films
(polymer compn. contg. nano- and micron-sized particles)

IT Aminoplasts
Polyurethanes, properties
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polymer compn. contg. nano- and micron-sized particles)

IT ***Acrylic*** ***polymers*** , uses
Polyesters, uses
Polysiloxanes, uses
Silanes
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polymer compn. contg. nano- and ***micron*** -sized particles)

IT Phenolic resins, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material

use); USES (Uses)
(resol; polymer compn. contg. nano- and micron-sized particles)
IT 1344-28-1, Alumina, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(nano- or micron-sized particle; polymer compn. contg.)
IT 9003-08-1, Melamine resin
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polymer compn. contg. nano- and micron-sized particles)
IT 108-78-1D, Melamine, polymers with polyol 9004-34-6D, Cellulose, deriv. 25036-13-9, Melamine-formaldehyde-urea copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polymer compn. contg. nano- and micron-sized particles)

L14 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:93504 HCAPLUS
DN 138:322499
TI Morphology study on elastomers reinforced by zinc dimethacrylate. II. In vulcanizates
AU Lu, Yonglai; Liu, Li; Zhao, Yang; Zhang, Liqun
CS Key Lab. of New Polymer Preparation and Processing, Beijing University of Chemical Technology, Beijing, 100029, Peop. Rep. China
SO Hecheng Xiangjiao Gongye (2003), 26(1), 12-16
CODEN: HXGOEA; ISSN: 1000-1255
PB Hecheng Xiangjiao Gongye Zazhi Bianjibu
DT Journal
LA English
CC 39-12 (Synthetic Elastomers and Natural Rubber)
AB The morphologies of various ZDMA - reinforced elastomers (including BR, SBR, EPDM, NBR, EPM, POE and HNBR) were studied by using SEM and TEM. It is shown that there are two essential dispersion structures in the vulcanizates of these systems: nano-scale dispersion structure and micron one. It is thought that nano-scale with strong reinforcing ability is formed by in-situ polymn. during peroxide curing process; while micron one without reinforcement for vulcanizates is the residual ZDMA particle. It is also found that the relative content and size of this two dispersion structures varies from different compd. systems. For BR and SBR vulcanizates, there are more micron structures and the dimension of nano structure one is relatively smaller than those of other system. For EPDM, ***NBR*** , EPR, POE and HNBR vulcanizates, there is fewer ***microns*** structure and the dimension of nanometer one is larger slightly. The effect of size of original ZDMA particles on morphol. of vulcanizate was also investigated. In POE system, ZDMA original particles with larger size lead to more micron dispersion structures in vulcanizate. However, there is no considerable influence of size of ZDMA particles on morphologies of EPDM, EPM, NBR and HNBR systems. The details for the formation of these structures are illustrated. These differences in morphologies directly impact the mech. properties of vulcanizates.
ST zinc dimethacrylate rubber vulcanization morphol mech property
IT Nitrile rubber, properties
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(N 240S; morphol. study on elastomers reinforced by zinc dimethacrylate)
IT Styrene-butadiene rubber, properties

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(SBR 1500; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT EPDM rubber
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(dicyclopentadiene-ethylene-propene, Keltan 740; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT EPDM rubber
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(ethylene-ethylidenenorbornene-propene, EP 21; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT Polyolefin rubber
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(ethylene-octene, Engage 8180; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT Nitrile rubber, properties
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(hydrogenated, Zetpol 2000; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT Vulcanization
(morphol. study on elastomers reinforced by zinc dimethacrylate)

IT Reinforced plastics
RL: PRP (Properties)
(morphol. study on elastomers reinforced by zinc dimethacrylate)

IT Butadiene rubber, properties
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(of cis-1,4-configuration, BR 9000; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT Elongation at break
Hardness (mechanical)
Microstructure
Tensile strength
Young's modulus
(of elastomers reinforced by zinc dimethacrylate)

IT 9003-17-2
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(butadiene rubber, of cis-1,4-configuration, BR 9000; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT 13189-00-9, Saret 634
RL: MOA (Modifier or additive use); USES (Uses)
(morphol. study on elastomers reinforced by zinc dimethacrylate)

IT 9003-18-3
RL: CPS (Chemical process); PEP (Physical, engineering or chemical

process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(nitrile rubber, N 240S; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT 9003-18-3
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(nitrile rubber, hydrogenated, Zetpol 2000; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT 25034-71-3, Dicyclopentadiene-ethylene-propene copolymer 25038-36-2, Ethylene-ethylidenenorbornene-propene copolymer 70800-37-2, Ethylene-octene copolymer
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(rubber; morphol. study on elastomers reinforced by zinc dimethacrylate)

IT 9003-55-8
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(styrene-butadiene rubber, SBR 1500; morphol. study on elastomers reinforced by zinc dimethacrylate)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Saito, Y; Japanese Rubber Society 1994, V67(12), P867 HCAPLUS
(2) Yonglai, L; China Synthetic Rubber Industry 2002, V25(6), P356

L14 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:87836 HCAPLUS
DN 82:87836
TI Acrylic polyblend powder coating composition
IN Pettit, Paul H., Jr.
PA du Pont de Nemours, E. I., and Co.
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
IC C08F
NCL 260031600
CC 42-10 (Coatings, Inks, and Related Products)
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3784501	A	19740108	US 1972-302857	19721101
	FR 2204669	A1	19740524	FR 1973-38366	19731026
	BE 806642	A1	19740215	BE 1973-137167	19731029
	ZA 7308394	A	19741030	ZA 1973-8394	19731030
	AU 7361985	A1	19750501	AU 1973-61985	19731030
	DE 2354585	A1	19740509	DE 1973-2354585	19731031
	JP 49097828	A2	19740917	JP 1973-121874	19731031
	GB 1428003	A	19760317	GB 1973-50577	19731031
	IT 1003166	A	19760610	IT 1973-30832	19731031
PRAI	US 1972-302857		19721101		

AB The ***acrylic*** ***polymer*** powder coating compns., consisting of particles with diam. 1-75 ***microns*** , contained poly(methyl

methacrylate) (I), Me methacrylate-alkyl methacrylate copolymers, or blends thereof 50-74.5, Me methacrylate-alkyl (meth)acrylate-hydroxyalkyl (meth)acrylate-.alpha.,.beta.-unsatd. acid copolymers 10-20, org. plasticizer 15-30, and crosslinking agent 0.5-3 wt. % and had glass transition temp. 30-60.degree. and melt viscosity <75,000 poise at 160.degree.. Thus, 25% I soln. in 2:1 toluene-Me2CO 200.0, 50% 37:10:1.5:51.5 butyl acrylate-hydroxyethyl acrylate-methacrylic acid-methyl methacrylate copolymer soln. 36.00, 90% benzoate-terminated poly(neopentyl glycol adipate) plasticizer in hydrocarbon solvent 11.00, didecyl phthalate plasticizer 20.00, hexakis(methoxymethyl)melamine 1.00, and p-toluenesulfonic acid 0.01 part were blended, extruded from a vacuum extruder to remove solvent, quenched with water, pelletized, and ground to give a compn. contg. 74 micron-diam. particles with glass transition temp. 40.degree. and melt viscosity 15,000-25,000 poise at 160.degree.. A 2-3 mil coating of the powder was applied to phosphatized and alkyd resin-primed steel panels, which were then baked 15 min at 175.degree., sanded, and baked 30 min at 175.degree.. The panels had craze-free temp. 30.degree., print-free temp. 135.degree., and acceptable cold-craze resistance.

ST blend acrylic polymer coating; powder coating acrylic blend; steel coating acrylic blend; polymethacrylate blend powder coating; hydroxyethyl acrylate copolymer coating; methoxymethylmelamine crosslinker acrylic coating; melamine methoxymethyl crosslinker coating

IT Crosslinking agents
(hexa(methoxymethyl)melamine, for hydroxyl group-contg. acrylic polymer blend powder coatings)

IT Polyesters, uses and miscellaneous
RL: MOA (Modifier or additive use); USES (Uses)
(plasticizers, for acrylic polymer blend power coatings)

IT Plasticizers
(polyester and didecyl phthalate, for acrylic polymer blend powder coatings)

IT Coating materials
(powder, acrylic polymer blends as, for metals)

IT 1,3-Propanediol, 2,2-dimethyl-, polymer with hexanedioic acid, benzoic acid-terminated
Hexanedioic acid, polymer with 2,2-dimethyl-1,3-propanediol, benzoic acid-terminated
RL: MOA (Modifier or additive use); USES (Uses)
(plasticizers, for acrylic polymer blend powder coatings)

IT 65-85-0, uses and miscellaneous
RL: USES (Uses)
(adipic acid-neopentyl glycol polymer terminated by, plasticizers for acrylic polymer blend powder coatings)

IT 9011-14-7
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, contg. hydroxyethyl acrylate copolymer and melamine deriv. crosslinking agent, powd.)

IT 25230-94-8
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, contg. poly(methyl methacrylate) and melamine deriv. crosslinking agent, powd.)

IT 3089-11-0
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agents, for hydroxyl group-contg. acrylic polymer blend powder coatings)

IT 84-77-5 28039-87-4

RL: MOA (Modifier or additive use); USES (Uses)
(plasticizers, for acrylic polymer blend powder coatings)

L15 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:176576 HCAPLUS
DN 132:285329
TI Radiological decontamination of ferrous metal items through electrochemistry

L15 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:410005 HCAPLUS
DN 131:202967
TI Production and sinter characteristics of CVR tantalum nanopowders

L15 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:187107 HCAPLUS
DN 130:275855
TI Determination of inorganic species in the solution extracted from cleanroom ***gloves*** used in semiconductor process

L15 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:9718 HCAPLUS
DN 124:132957
TI New material for photoemission electron source: semiconductor alloy (In,Ga)(As,P) grown on GaAs substrate

L15 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1993:458105 HCAPLUS
DN 119:58105
TI Electrostatic curtain studies

L15 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:93618 HCAPLUS
DN 116:93618
TI Transuranic contamination control using electrostatic curtain (proof-of-principle experiments)

L15 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:616939 HCAPLUS
DN 115:216939
TI Electrostatic curtain experiments

L15 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:449720 HCAPLUS
DN 83:49720
TI Composition profiles of several contaminated and cleaned surfaces of gold thick films on copper plates by Auger electron and secondary ion mass spectroscopy

L15 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1975:115504 HCAPLUS
DN 82:115504
TI Test methods and efficiency studies on multibank HEPA filter systems

L15 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1939:28355 HCAPLUS
DN 33:28355
OREF 33:4016f-g
TI Bitumen